

Sample Line-Drawing Display

Sample Line-Drawing Display Analysis

THE COMPUTER DISPLAY REVIEW

V.905

GRAPHIC DISPLAYS ETOM 2000

Notes

1. The main control electronics of the ETOM are housed in a desk having ample space for the addition of extra modules (character generator, circle generator). The digitizer, if fitted, is contained in a drawer which is extended when in use. The display screen and function keyboard are in a single housing which rests on top of the desk.
2. Commands can be input to the computer by means of 22 function keys housed in the display console. Each key will generate a five-bit pattern, the significance of which is predetermined by the computer program running at the time.
3. The controller supplied is not capable of subroutining, scissoring, keyboard interpret, function switch interpret, pointer tracking, or item identification. However, any of these functions are possible by the interfacing computer.
4. The standard vector generator is able to deflect the CRT beam in any direction up to 63 raster units from its current position to produce vectors up to 1.5 inches in length. Pictures are composed of a sequence of such vectors, and individual lines can be made to flash to highlight parts of the display. An optional beam position module allows the rapid positioning of the beam from any point on the screen to any other point within the 512 x 512 matrix when not drawing a line. This is achieved by using one memory word for position X and one word for position Y.

THE COMPUTER DISPLAY REVIEW

V.1971

System	Minimum	Maximum	Mean
Vector General	11,592	12,696	12,144
Control Data Grid	9,523	12,121	10,822
Sanders ADDS/900	9,243	11,192	10,717
Control Data 250	8,080	9,520	8,800
SAP 300	5,128	11,111	8,119
SEL 816A	6,349	9,523	7,493
Adage GT/50	7,073	7,913	7,493
III 1060	5,328	8,888	7,108
Univac 1557/1558	6,488	7,619	7,053
ITT OPSC	3,703	9,999	6,847
Tasker 9200	5,925	7,619	6,772
Digigraphics	4,848	8,669	6,758
DEC Graphic 15	5,128	8,000	6,564
IDI CM 10000	4,938	7,843	6,390
Evans & Sutherland Model 1	5,673	6,837	6,255
Ferranti 30/40	2,545	9,542	6,043
IDIHOM	4,581	6,888	5,734
XDS 7580	4,760	6,504	5,632
BR-90	3,555	7,111	5,333
IDI Model E1	4,761	5,333	5,047
Monitor 8100	4,102	5,925	5,014
SIG 100	3,333	6,666	4,999
SINTRA VU 2000	4,301	5,128	4,714
SAP 200	3,555	5,333	4,444
Tasker 9100	2,614	4,938	3,776
ITT MACC	2,515	2,806	2,660
IBM 2250/III	1,375	3,933	2,654
IBM 2250/IV	1,516	3,663	2,589
IBM 2250/I	1,230	3,933	2,581
Toshiba DDS 300	1,776	2,200	1,988
RCA 6320	1,481	2,222	1,851
DIDS-1500	1,233	1,480	1,356
Philco READ	1,206	1,282	1,244
ICL 4280	1,037	1,288	1,162
ICL 1830	511	1,010	760
Imiac PDS-1	724	781	752
SD 1090	391	410	400
DEC 338/339	230	241	236
Control Data dd16C	216	216	216
DEC 340	190	195	193

Figure V.7

LINE DRAWING DISPLAYS
INCHES OF LONG LINES PER FLICKER-FREE FRAME

Editorial Staff

John F. Martell

Former National Secretary and New England Chapter Chairman of the Society for Information Display

1967—Present

As Editor-in-Chief of The Computer Display Review and General Manager of the Publication Division of Keydata Corporation.

Directs special studies concerning display technology, applications and market analysis.

Engages in projects involving graphic man-machine communication techniques.

1964-1967

As Chief of Display Techniques Group, Decision Sciences Laboratory, Electronic Systems Division, L.G. Hanscom Field.

Conceived and conducted major programs of research, design engineering and system analysis in data presentation.

Guided analysts and psychologists engaged in research and systems design.

Consulted on all matters related to state-of-the-art and system utilization of displays.

Advised and consulted on display for the U.S. Mutual Weapons Development Program with the DRME of France and the Ministry of Defense of West Germany.

1960-1964

As Deputy Director of the Directorate of Displays, Electronic Systems Division, AFSC (formerly CCDD)

Ensured that the state-of-the-art in display technology was compatible with existing and future Air Force requirements.

Acted as advisor to Working Group VI, Vision and Displays of the National Academy of Sciences.

Consulted, analyzed and developed operational requirements and performance specifications for display systems for the Deputy for Systems Management.

1954-1960

As Project Engineer, Lincoln Project Office, AFCRL (formerly the Air Force Cambridge Research Center)

Primarily engaged in the implementation of the SAGE system and developed advanced display concepts.

1954

Was graduated from Tufts University, BSEE

George M. Luhowy

Member of the Society for Information Display.

Member of Special Interest Groups of ACM

1966-Present

As Technical Editor of The Computer Display Review, Editor of The Computer Characteristics Review and Manager of the Publication Division of Keydata Corporation.

Consults for manufacturers and users of displays and related equipment.

Recently completed an International Interactive Graphics Market Analysis resulting in a definition of the size and application spectrum of such devices, and projections on their future use.

Participated in a study on the feasibility of using large screen and interactive graphic display devices to monitor and control traffic flow for a U.S. Government Agency.

Developed on-line real-time commercial applications and constructs large-scale logic tables for file manipulation.

While on assignment at Raytheon's Missile Systems Division, wrote the compiler and part of a simulator used in a large machine-aided system to simulate logic circuitry and generate output tapes for an automatic wiring machine.

1963-1966

Programmer Analyst, Honeywell

Developed projects in the field of design automation on the H-800.

1963

Was graduated from Fairleigh Dickenson University, BSEE

Daniel J. Sliski, Jr.

Member of the Society for Information Display

1968-Present

As Associate Editor of The Computer Display Review and The Computer Characteristics Review.

Investigates new, advanced technologies applicable to computer display. Collects, verifies and analyzes all technical data for publication.

Served as senior member of a team responsible for an international co-sponsored study entitled, Interactive Graphics Technology and Market Analysis.

Served as a member of a team responsible for designing and implementing a time-shared interactive graphics software package for a major U.S. Computer and display manufacturer.

While on assignment to a major oil company organized a data base for an interactive graphic oil movement control system.

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